

COMPANY NUMBER 34704

PRODUCT Serial No. 66

LABEL APPROVAL 5-30-96 DATE

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G	HLU	RPYRIFOS	
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A CONTRACTOR	INS	nder to side i secticide.	
The second s		EPA Reg. No. 57 104-661;	
To be applied only by or under the direct applicators responsible for insect cor Organophosphate Insect	ntrol programs.	ard (40 CFR part 170)—in general, only agricultural-plant uses are covered by the WPS—must wear: long-sleeved shirt and long pants, chemical resistant gloves such as barrier laminate, butyl rubber or viton,	
ACTIVE INGREDIENTS		chemical-resistant footwear plus socks, protective eyewear. Discard clothing and other absorbent materials that have been drenched	
Chlorpyrifos [0,0-diethyl 0-(3,5,6-trichloro 2-pyrldinyl) phosphorothioate] NERT INGREDIENTS*		or heavily contaminated with this product's concentrate. Do not reuse them.	
	TOTAL 100.0%	Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.	
• This product contains xylene-rang		Engineering controls statements: When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets with requirements	
Controls Numerous Pests in the Following Ar Production Nursery/Outdoor Uses of Orname		listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be re- duced or modified as specified in the WPS.	
Soil Treatments Dormant Spray of Tree Pests			
Pre-Plant Incorporation of Field Grown Nurs Shade, Flowering & Evergreen Trees	sery Stock	USER SAFETY RECOMMENDATIONS Users should:	
 Residential Citrus, Fruit & Nut Trees Turf & Other Outdoor Uses 	- •	Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.	
 Outside Surfaces & Around Buildings Indoors . 		Remove clothing immediately if pesticide gets inside. Then wash thor- oughly and put on clean clothing.	
KEEP OUT OF REACH OF	FCHILDREN	Remove PPE immediately after handling this product. Wash the out- side of gloves before removing. As soon as possible, wash thor- oughly and change into clean clothing.	
WARNING	AVISO	oughly and charge into clean clothing.	
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EPA REG. NO. 34704-66

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this labelabout personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls over short-sleeved shirt and short pants, chemical-resistant gloves, such as: barrier laminate, butyl rubber, nitrile rubber or viton, chemicalresistant footwear plus socks, protective eyewear, chemical-resistant headgear for overhead exposure.

NON-AGRICULTURAL USE REQUIREMENTS Keep children and pets off treated area during application and until

sprays have dried. Do not allow public use of treated areas during application or until

spray has dried.

STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food, or feed by storage or disposal. Do not store under conditions which might adversely affect the container or its ability to function properly.

STORAGE: Store in safe manner. Store in original container only. Keep container lightly closed when not in use. Reduce stacking height where local conditions can affect package strength. Personnel should use clothing and equipment consistent with good pesticide handling. **PESTICIDE DISPOSAL:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Metal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. Plastic: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

General Information

Chlorpyrifos 4E is an emulsiliable concentrate for use to control pests injurious to turf, soil, buildings (inside and outside), ornamentals and fruit, nut and citrus trees. The pests controlled are listed in the accompanying tables. Chlorpyrifos 4E is compatible with insecticides, mitteldes and fungicides commonly recommended except for aikaline materials such as Bordeaux mixture and lime. It is always recommended that a small jar compatibility test using proper proportions of chemicals and water be run to check for physical compatibility prior to tank mixing.

Attention: Keep out of fish pools and other bodies of water. Do not treat vegetable gardens. Do not allow livestock to graze in treated areas. Do not feed treated grass cuttings (hay) or seed screenings to livestock or use hay for livestock bedding. Do not use in poultry houses and greenhouses.

3913

EPA REG. NO. 34704-66

Ornamentals Growing Outdoors or in Nurseries Use Chlorpyrilos 4E to treat llowers, shrubs, evergreens, vines, shade and flowering trees and non-bearing fruit, nut and citrus trees found to be infested with pests listed in the following table. Dilute Chlorpyrilos 4E with water according to directions given in the table and apply using suitable hand- or power-operated spray equipment in a manner to provide complete and uniform coverage. For best results, apply a coarse spray to thoroughly wet both upper and lower leaf surfaces and infested limb and trunk areas. Attempt to penetrate dense foliage, but avoid overspraying to the point of excessive runoff. Treat when pests appear and repeat at 7 to 10 day intervals, if needed. Consult your State Agricultural Experiment Station or Extension Service Specialist for application timing and other specific use information. For nurseries, when using spray equipment delivering less than 200 gallons of linished spray per acre, use the rate recommended in the per acre column. Uniform coverage is critical for effective insect and mite control. control.

Control. Note: Environmental factors have significant effects on phytotoxic expression. Chlorpyrifos 4E has been tested on numerous ornamental plants without causing serious phytotoxicity at recommended use rates. Some varieties of azaleas, camellias, poinsettias, rose bushes, or variegated ivy have shown varying degrees of phytotoxicity following treatment with Chlorpyrifos 4E. Before treating large numbers of plants (especially those listed above), its recommended that a small block of plants be treated and observed for 7 to 10 days to determine phytotoxic potential. Note: The user assumes responsibility for determining if Chlorpyrifos 4E is safe to treated plants under commercial growing conditions.

		hlorpyrifos 4E r to Make			
Pest†	Per Acre 100 gallons		Specific Directions		
delgids (Cooley) (Eastern spruce galls) (Fine bark) Ints (including foraging fire ants) ophids (Apple) (Chrysanthemum) (Cottonwood) (Elm leaf) (Peach) (Peach) (Peach) (Peach) (Peach) (Peach) (Peach) (Peach) (Peach) (Peach) (Peach) (Peach) (Peach) (Peach) (Peach) (Peach) (Peach) (Peach) (Powers) (Spirea) (Woolly) Armyworms (Fall) (Yellowstriped) 3gworms' 3gworms' 3gaworms' 3gaworms' 3catelor bugs Cockroaches (American) (Brownbanded) (German) (Oriental) (Smokey brown) Elm spanworms 5all webworms' 3gresh oppers 5aresh oppers 5aresh oppers 5aresh oppers 5area huttworms 1ackpine budworms 1ackpine budworm	Per Acre 1 pt-1 qt	100 gallons 8-16 fl oz	Specific Directions 1. For bagworms, treat when larvae are small and actively feeding. 2. For effective control of maple leafoulters, spray should be applied before leaves are tightly rolled. 3. For effective control of maple leafoutters on maple trees, apply spray to larvae as cases are being formed. Do not treat sugar maple trees intended for maple symp production. 4. For effective control of spider mites when large numbers of eggs are present, apply a second spray 3 - 5 days in the South or 7 - 10 days in the North after initial treatment to control newly-hatched nymphs. 5. Locate carpenter ant nest, if possible, and drench thoroughly. 6. For control of fall webworm, directly spray into web and immediately adjacent foliage.		
Periodical cicada Plant bugs Poplar tentmaker Psylids Puss caterpillars Rose chafers Sawfiles, exposed (Pin oak) (Pine) (Redheaded) Sowbugs Spittlebugs			: 1 ;		
Spring elm caterpillars Spring elm caterpillars Spruce budworms (Eastern) (Western) Tent caterpillars (Forest) (Western) Thornbug Walnut caterpillars Whiteflies Yellownecked caterpillars					

†Superscripts refer to Specific Directions.

4813

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EPA REG. NO. 34704-66

		hlorpyrifos 4E r to Make	
Pest†	Per Acre	100 gallons	Specific Directions
Armyworms (Beet) Beetles (Fuller rose) (Native elm bark)' Browntail moth Cutworms Leafhoppers Mahogany webworms Mealybugs Mimosa webworms Moths (Browntail) (Cypress tip) (Douglas fir tussock) (European pine shoot) (Gypsy) ² (Holly bud) (Nantucket pine hp) (Pandora) (Pitch pine tip) (Subtropical pine tip) (Clussock) Dakworms (California) (Orangestriped) (Redhumped caterpillars Thrips (exposed) Meevils (Biackvine) ³ (Pine reproduction)	1 qt	1 pt	 To reduce twig and branch feeding by bark beetles, applications should be made in the spring or early summer. To kill migrating and invading gypsy moth larvae, treat trunks and foliage. Blackvine weevils are night leeders. Late alternoon spraying wil maximize control.
(Yellow poplar) Foliar feeding Beetles' (Blister leaf) (Cottonwood leaf)* (Elm leaf) (Filea) (Fuller rose) (Japanese) (June) (Willow leaf)	1 qt	1 pt to 1 qt	 For cottonwood leaf beetles, use Chlorpyrifos 4E in water to contro larvae and adults infesting cottonwoods. Make the treatment wher field counts indicate damaging beetle populations are developing or present.
Borers' Clearwing moths (Ash) (Dogwood) (Lesser peachtree) (Lilac) (Oak) (Rhododendron) Metallic wood (Bronze birch) (Flatheaded appletree) (Twolined chestnut) Longhorned beetles (Locust) (Red oak) Cranberry girdler larvae ² Leafminers Needleminers (Jeffrey pine) (Lodgepole pine) (Spruce) Scale insects ³ (Cottony maple) (Euonymus)	2 qt	1 qt	 For borers, apply Chlorpyrifos 4E to the trunks and lower limbs of trees and strubs when the adults begin to emerge. Consult your State Agricultura Experiment Station or Extension Service Specialist for proper time to treat Apply uniformly as a coarse low-pressure spray. Pheromone traps may aid in detection of adult clearwing moths. For cranberry girdler larvae, apply 1 quart of Chlorpyrifos 4E per acre Direct spray at the base of tree using 50 gallons of water per acre. Irrigate immediately after application for soil penetration of 1-2 inches. Treat after egg laying during the summer. Time applications for control of scale insects when crawlers or first two stages of settled nymphs are present.
(Fletcher) (Florida wax) (Golden oak) (Hermispherical) (Lecanium) (Magnolla) (Oak kermes) (Oak lecanium) (Oystershell) (Pine needle) (San Jose) (Tea)			

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	Amount of Chlorpyrifos 4E In Water to Make		
Pest†	Per Acre	100 gallons	Specific Directions
Borers (Cottonwood) (Peachtree)'	11/2 gal	3 qt	 For peachtree borers, apply Chlorpyrilos 4E in water to flowering trees and shrubs of the genus <i>Prunus</i> as a trunk spray before newly-halched larvae enter the trees. Apply as a coarse, low-pressure spray. Thoroughly wet all bark areas from ground level to scaffold limbs.
Beetles ¹ (Includes Wood Infesting) (Ambrosia) (Black turpentine) (Cottonwood leat) (Elm leaf) (Elm leaf) (Flea) (Fuller rose) (Japanese) (June) (Native elm bark) ² (Southern pine) (Willow leat)	4 gai	2 gal	 For preventive treatment, apply the spray to the main trunk of trees in the early spring or when threat of attack exists from nearby infested trees. For remedial treatment, apply the spray to the main trunk of infested trees when damage occurs,but before adult beetles begin to emerge. To prevent native elm bark beetles from over wintering in uninfested trees, apply Chlorpyrifos 4E in water to the bottom 9 ft of the trunk. Wet the trunk thoroughly but do not spray to runoff. Care should be taken to apply the spray right to the base of the root lare. Application can be made with either a backpack mistblower or a hydraulic pressure sprayer from spring through to early fall.

†Superscripts refer to Specific Directions.

Ornamentals (Soil Treatment)

Use Chlorpyrifes 4E to treat potted, containerized, or balled and burlapped nursery stock to control the insects in the soil attached to the roots of these plants. Completely submerge the container with drain holes or root ball stabilized by burlap in a tank containing diluted Chlorpyrifos 4E. Do not removed burlap wrap or plastic containers with drain holes prior to submerging. Keep the container or root ball submerged until complete soil

saturation has occured, normally about 30 seconds. PRECAUTIONS: During all operations (submerging, drenching, injecting), wear chemical resistant apron in addition to other PPE listed for applicators and other handlers. Application should be made in a well-ventilated area.

Note: Environmental factors significantly affect phytotoxicity. Chlorpyrilos 4E has been tested on numerous ornamental plants without causing serious phytotoxicity. However, because of the numerous varieties grown, it is recommended that a small group of plants be treated at the recommended rate under the anticipated growing conditions and observed for phytotoxic symptoms for at least 7 days, before a large number of plants are treated.

Note: The professional user assumes responsibility for determining if Chlorpyrifos 4E is safe to treated plants under commercial growing conditions.

	Amount of Chlorpyrifos 4E in Water to Make		
Pest†	1 gallon	100 gallons	Specific Directions
Fire Ants'	1/25 fl OZ	4 fl oz	 An alternative treatment to submerging potted plants is to dilute 4 oz. of Chlorpyrifos 4E in 100 gals, of water. This dilution should be applied to the point of runoff on a twice-daily schedule for three consecutive days. Do not remove burlap wrap or container from plants prior to treatment.
White Grubs ² Weevils ³ (Such as Black vine)	²/₃ fl oz	2 qt	 An alternative treatment to submerging containerized plants is to drench the container with the diluted insecticide solution applying approximately 10 to 12 fl. oz. of diluted insecticide solution per gallon of container size (4-5 fl. oz/100 cubic inches of container). The container media should be pre-moistened by irrigation or rainfall before drenching. Do not remove container from plants prior to treatment. An alternate treatment to submerging balled and burlapped plants is to inject Chlorpyrifos 4E insecticide into the root ball. Equally distribute 1 to 3 quarts of the dilute Chlorpyrifos 4E solution per cubic foot of soil volume through an injection rod inserted into the soil ball surrounding the plant nots. Uniform distribution of the insecticide throughout the soil of the root ball is critical for effective control. It is recommended that the injection rod be inserted in at least four equally spaced locations around the stem of the plant at a 30-45 degree angle from the plant between the stem and the upper outer perimeter of the ball. This technique has been shown to be most effective with small root balls (up to 1.5 ft, diameter). Larger root balls may require more injection points to ensure thorough soil distribution of the insecticide. The injection rod should be coupled to a flow meter to monitor the correct volume applied per root ball suring an injection persure of at least 30 psi. The application should be made such that splash-back and runoff are minimized.
Coffee root mealybug ²	1/s fl. oz.	1 pint	1

†Numbers in parentheses refer to Specific Directions.

Ornamentals (Dormant Spray of Tree Pests) Use Chlorpyrifos 4E as a dormant or delayed dormant spray at the rates indicated to control the listed insects. While Chlorpyrifos 4E may be used without oil, oil is recommended to control additional pests such as European red mite.

For high volume (dilute) sprays (200 to 600 gallons of spray mixture per acre), tank mix the specified dosage with 1 to 2 gallons of a petroleum spray oil recommended for dormant use per 100 gallons of water. Spray the entire tree to runoff using suitable ground spray equipment.

For low volume (concentrate) sprays (less than 200 gallons of spray mixture per acre), use the same amount of Chlorpyrifos 4E as for a dilute spray and apply in a manner that will ensure thorough coverage of the tree. Use oil as recommended by your State Agricultural Experiment Station or Extension. Service Specialist.

Precautions: Because cold dry conditions may cause Chlorpyrilos 4E plus oil to infuse trees resulting in bud damage or drop, do not apply until rain or irrigation has replenished soil moisture such that bark and twigs are not desiccated. For nurseries: do not use more than 4 pints of Chlorpyrilos 4E per acre. acre.

Hestrictions: Make only one application during the dormant season except for control of the apple ermine moth. Do not allow meat or dairy animatise to graze in treated areas.

	Amount of Cl	lorpyrifos 4E in	Nater to Make		
Pest	1 gallon	3 gallons	100 gallons	Specific Directions	
Aphids (Mealy plum) (Rosy apple) (Woolly apple) Borers (Peach twig) Cutworms (Climbing) Leafrollers (Pandemis) Pear psylia adults Plant bugs Scale (San Jose)	1/12 - 1/5 fl OZ	1/4 - 1/2 ft oz	³/2 - 1 pt	Tank mix with 1 - 2 gallons of a petroleum spray oil recommended for dormant use in 100 gallons of water.	
Apple ermine moth	1/12 fl. 0Z.	1/4 fl. oz.	1/2 pint	For control on <i>Malus</i> species, make 2 applications at a 7-14 day interval in combination with a petroleum spray oil at the rate of 2-4% (volume:volume) in a spray to wet application to ensure thorough coverage of all stems and branches. When using tank mixtures, also follow all label directions for the mixing partner (oil). Use appropriate application equipment and spray volumes to ensure complete coverage of the plant(s) or control will be compromised.	

Ornamentals (Pre-Plant Incorporation Treatment of Field Grown Nursery Stock) White Grubs and White Fringed Beetles

Apply Chlorpyrifos 4E to soil and incorporate before transplanting or planting to control white grubs and white fringed beetles during transplant or seedling establishment. Apply to the soil surface as a broadcast spray at a rate of 4 quarts per acre using sufficient water to obtain adequate coverage. Do not aerially apply. On the same day of the treatment, incorporate the insecticide into the top 2 to 4 inches of the soil using a tandem disc, field cultivator or equivalent incorporation equipment capable of thorough soil mixing.

Precaution: Environmental factors and varietal variation can significantly affect the potential for phytoloxicity from pesticide use. Chloropyrifos 4E insecticide has been evaluated at the above indicated rate on lobiolly pine without phytotoxic effects. Growers should prepare and observe a small test plot as above in order to determine the potential phytotoxicity in species or varieties other than loblolly pine. The following procedure should be used: 1) Treat a small test block as above; 2) Seed or transplant the test species or variety and observe for symptoms of phytotoxicity for a minimum of 14 days following emergence or transplanting. Note: The professional user assumes responsibility for determining if Chlorpyrifos 4E is safe to treated plants under commercial growing conditions.

Garden Symphylans

Apply Chlorpyrifos 4E as a preplant incorporated treatment to suppress garden symphylans on land to be planted to field grown ornamentals. Apply as a broadcast application to the soil surface at the rate of 2-4 quarts per acre in at least 10 gallons of water per acre. On the same day of treatment incorporate the insecticide to a depth of up to 8 inches using a disc, rotovator or other suitable equipment. Use the higher rate range for longer residual or where deeper incorporation is necessary.

Precaution: Environmental factors significantly affect phytotoxicity. Chlorpyrifos 4E has been tested on numerous ornamental plants without causing serious phytotoxicity. However, because of the numerous varieties grown, it is recommended that a small group of plants be treated at the recommended rate under the anticipated growing conditions and observed for phytotoxic symptoms for at least 7 days, before a large number of plants are treated. Do not blend Chlorpyrilos 4E with dry bulk fertilizer materials. Note: The professional user assumes responsibility for determining if Chlorpyrilos 4E is safe to treated plants under commercial growing conditions.

Tree Pests

Use Chlorpyrifos 4E to treat shade and flowering trees, and evergreens found to be infested with pests listed in the following table. Dilute Chlorpyrifos 4E with water according to directions given in the table and apply using suitable hand- or power-operated spray equipment in a manner to provide complete and uniform coverage. For best results, apply a coarse spray to thoroughly wet both upper and lower leaf surfaces and to infested limb and trunk areas. Attempt to penetrate dense foliage, but avoid overspraying to the point of excessive runoff. Treat when pests appear and repeat at 7 to 10 day intervals, if needed,

Consult your State Agricultural Experiment Station or Extension Service Specialist for application timing and other specific use information.

	Amount of C	hlorpyrifos 4E in	Water to Make		
Pest†	1 gallon	3 gailons	100 gallons	Specific Directions	
Adelgids (Cooley) (Eastern spruce gall) (Pine bark) Aphids (Appia) (Chrysanthemum) (Cottonwood) (Elm leaf) (Peach) (Rose) (Spirea) (Woolly) Bagworms' Boxelder bugs Cankerworms	₹/12 fl OZ	¹ /4 ft oz	8 fl oz	 For bagworms, treat when larvae are small all actively feeding. For effective control of leafrollers, spray should be applied before leaves are tightly rolled. For maple leafcutters on maple trees, apply pray to larvae as cases are being formed. Do not treat sugar maple trees intended for maple syrup produc- tion. For effective control of spider mites, when large numbers of eggs are present, apply a second spray after 3 - 5 days in the south or 7 - 10 days in the north after initial treatment to control newly-hatched, so for effective control of Fall webworms, direct spray into web and immediately surrounding foliage. 	

†Superscripts refer to Specific Directions.

Pest†		lorpyrifos 4E in 1 3 gallons		Specific Directions
Pest† Catalpa sphinx Catalpa sphinx Compose Compose Catalpa sphinx Compose C	1 gallon 1/12 fl oz	3 gallons 1/4 fl oz	100 gallons 8 fl oz	Specific Directions
(Forest) (Western) Valnut caterpillars Vestern spruce budworms				
/ellownecked caterpillars Beetles	1/s fl oz	1/2 11 OZ	1 pt	1. To reduce foliar feeding on twigs and branches b
(Fuller rose) (Native elm bark)' eafhoppers Mahogany webworms Mealybugs Moths (Browntail) (Cypress tip) (Douglas fir tussock) (European pine shoot) (Gypsy) ² (Holly bud) (Nantucket pine tip) (Pandora) (Pitch pine tip) (Subtropical pine tip) (Tussock) Dakworms (California) (Orangestriped) (Redhumped caterpillars Thrips (exposed) Weevils (Biackvine)3 (Piene reproduction) (Yellow poplar)		•		 beetles, applications should be made in the sprin or early summer. 2. To kill migrating and invading gypsy moth larvar treat trunk and foliage. 3. Blackvine weevils are night feeders. Late afte noon spraying will maximize control.
Beetles (Cottonwood leaf)' (Eim leaf) (Flea) (Willow leaf)	1/8 - 1/3 { OZ	1/2 - 1 fl oz	1 pt - 1 qt	 For cottonwood leaf beetles, use Chlorpyritos 4 in water to control larvae and adults infesting cc tonwoods. Make the treatment when field coun indicate damaging beetle populations are develop ing or present. For seedlings, use 8 - 20 gal of spre volume per acre.
Borers ¹ Clearwing moths (Ash) (Dogwood) (Lesser peachtree) (Lliac) (Oak) (Rhododendron) Metallic wood (Bronze birch) (Flatheaded appletree) (Twolined chestnut) Longhorned beetles) (Locust) (Red oak) Cranberry girdler larvae ² Leafminers	1/3 fl oz	1 fl oz	1 qt	 For borers, apply Chlorpyritos 4E to the trunks an lower limbs of trees and shrubs when the duul- begin to emerge. Consult your local State Arrier tural Experimental Station or Extension Servic Specialist for proper time to treat. Apply uni/srm as a coarse low-pressure spray. Pheromone traps may aid in detection of adu clearwing moths. For cranberry girdler larvae infesting Douglas f seedings, apply 1 quart of Chlorpyrifos 4E pe acre. Direct spray at the lower crown and stem using 5D gal of water per acre. Irrigate immediate after application for soil penetration of 1 - 2 inches Treat after egg laying during the summer. Time applications for control of scale insects whe crawlers or first two stages of settled nymphs ar present.

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-		lorpyrifos 4E in		
Pest†	1 gallon	3 gallons	100 gallons	Specific Directions
Needleminers (Jeffrey pine) (Lodgepole pine) (Spruce) Scale insects ³ (Cottonycushion) (Cottony maple) (Euonymus) (Florida wax) (Golden oak) (Hernisphencal) (Lecanium) (Magnolia) (Oak kermes) (Oystershell) (Pine needle) (San Jose) (Tea) (White birch)	1/a fi oz	- 1 fl oz	1 qt	
Northern pine weevil Pales weevil	1 fl. oz.	3 fl. oz.	3 quarts	Apply as a cut stump spray or drench in winter or early spring.
Borers (Cottonwood) (Peachtree)'	1 fi oz	3 fl oz-	3 qt	 For peachtree borers, apply Chlorpyrilos 4E in water to flowering trees and shrubs of the genus <i>Prunus</i> as a trunk spray before newly-hatched lar- vae enter the trees. Apply as a coarse low pressure spray. Thoroughly wet all bark areas from ground level to scaffold limbs.
Beetles ¹ (Cottonwcod leaf) (Elm leaf) (Flea) (Fuller rose) (Native elm bark) ² (Willow leaf)	1 1/s fl oz	4 fl oz	1 gal	 For preventive treatment, apply the spray to the main trunk of trees in the early spring or when threat of attack exists from nearby infested trees. For remedial treatment, apply the spray to the main trunk of infested trees or logs when damage occurs but before adult beetles begin to emerge. To prevent native elm bark beetles from overwin- tering in uninfested trees, apply a dilution of 1 gal, per 100 gals. of water (11/3 fl. oz, per gallon) as a spray to the bottom 9 feet of the trunk. Wet the trunk thoroughly but do not spray to the base of the root flare. Applications can be made from Spring to early Fall. To reduce twig and branch feeding on trees deemed to be of high value, apply as a spray to the tree crown using a dilution of 1 gal. per 100 gals. of water (11/s fl. oz, per gallon). Appli- cations should be made in the Spring or early Sum- mer using a sprayer that will give thorough coverage to the tree crown.
Beetles' (Ambrosia) (Anobiidae) (Bark) (Black turpentine) (Blister) (European elm bark) (Ips) (Japanese) (June) (Southern pine) (Spruce) Carpenter ants Termites	2 ² / ₃ fi oz	8 fl oz	2 gal	 For preventive treatment, apply the spray to the main trunk of trees in the early Spring or when threat of attack exists from nearby infested trees. For remedial treatment, apply the spray to the main trunk of infested trees or logs or before adult beetles begin to emerge.
Weevils (Such as: Northern pine, Pilch eating, Twig	51/3 fl. oz.	16 fl. oz.	4 gal.	For pine seedlings, treat immediately after transplant- ing. Treat each seedling with enough spray to thor- oughly wet the foliage and stem to the point of runoff. For nurseries, do not use more than 6 gallons of spray dilution per acre.

†Superscripts refer to Specific Directions.

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Citrus Use Chlorpyrifos 4E to treat grapefruit, lemon, orange and other citrus trees or tree fruit. Use lower rates for light infestations, higher rates for neavy infestations. Treat when insects become a problem or in accordance with the local spray schedule recommended by your State Extension Servico specialist. Do not apply to citrus if temperature exceeds 95°F. Chlorpyrifos 4E is highly toxic to bees exposed to direct treatment. Do not apply to drought, heat stressed, or flowering trees.

Restrictions: Do not make more than two applications per fruit year. Do not make a second application within 30 days of the first application, Dc/not pick fruit for consumption until 21 days after application. Rate applied must not exceed 1/6 fl. oz. per gallon or 1 pint per 100 gallons.

	Amount of C	hlorpyrifos 4E in W	ater to Make	
Pest	1 gailon	3 gallons	100 gailons	Specific Directions
Aphids Katydids Lepidopterous Iarvae	1/10-1/5 fl OZ	1/4-1/2 fl OZ	1/2-1 pt	Use directions apply in all states.
Citrus thrips Mealybugs Scale insects (Black) (Brown soft) (California red) (Chaff) (Snow)	1/10 - 1/5 fl OZ	1/4 -1/2 fl oz	1/2 -1 pt	Use directions apply in Florida only. In California, apply as outside foliar coverage for citrus thrips and mealybug, ther- ough coverage of entire tree for scale insects. A petroleum spray oil recommended for use on citrus trees may be added to spray mixtures only at rates of up to 1.8 gallons per 100 gallons of water.
Citrus rust mite	1/10 - 1/5 fl oz	1/4-1/2fl oz	1/2 - 1 pt	Use directions apply in Florida only.

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EPA REG. NO. 34704-66

Fruit and Nut Trees

Use Chlorpyrifos 4E to treat almond, apple, cherry, filbert, nectarine, peach, pecan, and wainut trees by spraying to the point of runoff. Observe local use directions for tank mix combinations especially with applications with Chlorypyrifos 4E plus spray oil. Dry or cold conditions may cause Chlorypyrifos 4E plus oil to infuse trees resulting in bud damage or drop; do not apply until rain or irrigation has replenished soil moisture such that bark and twigs are not dessicated. Do not apply when trees are stressed by drought.

	Amo	unt of Chlorpyrife	IS 4E	•
Pest	1 gallon	3 gallons	100 gallons	Specific Directions
Aphids (Such as:	1/6 - 1/3 fl. oz.	1/2 - 1 11. OZ.	1 pt 1 quart	1. Lubber grasshoppers must be controlled when they
Apple, Black cherry, Black	10 - 13 11. 04.	72 - 1 H. VC.	· · pu - i yuait	are small (less than 1 inch in length) by direct contact
pecan, Filbert, Mealy plum,				with spray.
Rosy apple, Woolly apple,			-	
Yellow pecan)				2. For effective control of spidermites, when large
Apple maggot			'	numbers of eggs are present, apply a second spray 3 to
Borers (Such as:				5 days in the South or 7 to 10 days in the North after
American plum, Dogwood,			,	initial treatment to control newly hatched nymphs.
Lesser peachtree, Pacific		•		3. Time applications for control of scale insects when
flatheaded, Peach twig,				crawlers or first two stages of settled nymphs are
Peachtree, Shothole)				present.
Cherry trust fly				•
Climbing cutworm				
Codling moth	•			
European apple sawfly				,
European corn borer Eyespotted bud moth		•		
Fall webworm				
Filbert worm				
Grasshoppers' (Such as Lubber)			1	
Green fruitworm			1	
Hickory shuckworm			1	
Katydids				
Leaf rollers and tiers			l	
(Such as: Avocado leafroller, Filbert leafroller, Fruittree	-		1	
Filbert leafroller, Fruittree				
leafroller, Obliquebanded leafroller, Omnivorous leaftier,			ł	
leafroller, Omnivorous leaftier,			i i i i i i i i i i i i i i i i i i i	
Orange tortrix, Pandemis				
leafroller, Redbanded leafroller,				
Variegated leafroller)		, I		
Lepidopterous larvae			1	
Lesser appleworm Lygus sp.			1	
Mealybugs				
Mineola moth				
Mites ² (Such as:				
European red, Pecan leat				
scorch, Twospotted spider)				
Navel orangeworm				
Oriental fruit moth				
Pecan nut casebearer				
Pecan weevil				
Periodical cicada				
Phylloxera spp.				
Plum curculio Potato leafhopper			1	
Rose chafer				
Scales insects				
(Such as: European fruit	ļ	1]]
lecanium, San Jose, Walnut)			[
Spittlebug]		, I
Spotted tentiform leafminer		l		
Stinkbug		l		
Tarnished plant bug		1		
Thrips			1	
Tufted apple budmoth			1	
Walnut husk fly		1	1	
Western tussock moth			1	
White apple leafhopper				
Winter moth			<u> </u>	4
Scale insects ³	1 - 2 ll. oz.	3-4 fl. oz.	1 - 2 quarts	
(Such as: Black scale, Brown		1		•
soft scale, California red scale,		1		
Chaff scale, Florida red scale,	1			
Long scale, Purple scale, Snow]			۰ ۱ (
scale)			<u> </u>	<u> </u>

Restrictions: Almonds, Fliberts, Walnuts: Make only one dormant/delayed dormant spray application and no more than three foliar spray applications on almonds per season, one dormant/delayed dormant spray application and no more than two foliar spray applications on walnuts per season, and no more than three foliar spray applications on filberts per season. Do not apply within 14 days of harvest.

Apples: Rate applied must not exceed 1/3 fl. oz. per gallon or 1 quart per 100 gallons. Make no more than 8 applications per season. Do not apply last treatment within 28 days before harvest or apply last two treatments closer than 21 days apart.

Nectarines, Peaches (trunk sprays only): Do not allow spray to contact fruit. Make only one application per season. Do not apply within '4'cay's of harvest. , .

EPA REG. NO. 34704-66

Pecans: Rate applied must not exceed 1/3 fl. oz. per gallon or 1 quart per 100 gallons. Make no more than 5 applications per season. Do not apply within 28 days of harvest.

Sour cherries: Make no more than 8 applications per season. Do not apply within 14 days of harvest.

Sweet cherries: (trunk and lower limb sprays only): Rate applied must not exceed 1/3 fl. oz. per gallon or 1 quart per 100 gallons. Avoid spray contact with foliage (leaves) since premature leaf drop may result. Make only three applications per year. Do not apply within 6 days of harvest.

Additional Precautions Specific to California: Use a minimum of 250 gallons of total spray volume per acre. Do not use more than four gallons of spray oil per acre on almonds, peaches or nectarines. Do not use any adjuvants or surfactants in addition to or as a substitute for a petroleum spray oil in a tank mix with Chlorpyrifos 4E. Do not apply on almonds in the following counties in California: Butte, Colusa, Glenn, Solano, Tehama, Yolo and Yuba.

Turf and Other Outdoor Uses

Use Chlorpyrifos 4E to control the pests listed in the following table by applying at the recommended dosages and in accordance with the directions given below or as recommended by your local Agricultural Extension Service Specialist, Dilute Chlorpyrifos 4E in water and apply as a coarse, lowpressure spray using suitable application equipment. Thoroughly water immediately after treatment to wash the insecticide into the turf, except as noted. For best results, the lawn should be moist at time of treatment. Spray when pests first appear; re-treat when needed.

	Amount of Ch		· .
Pest†	1000 sq ft	Acre	Specific Directions
Ticks ¹ (American dog) (Cattle fever)	1/4 fl oz	11/2 pt	 For control of ticks infesting, treat soil and other areas likely to serve as harbor- age sites for ticks that have removed themselves from their host. Spray surfaces to be treated until wet, but do not create excessive runoff.
(Gulf coast) (Lone star)			Note: This application is intended as a premise spray only. Do not use as a direct spray on livestock or any sites which may come in contact with livestock.
Ants (including foraging fire ants) Armyworms (Beet) (Fail) (Yellowstriped) Centipedes Chiggers' Chinch bugs Clover mites Cutworms Crickets Deer Ticks' Earwigs Fiery skipper Fire ants (mounds) ² Fiers skipper Fire ants (mounds) ² Fieas Gnats Graenbug aphids June beetles Leafhoppers Lucerne moths Mitlipedes Mites (Clover) (Bermudagrass stunt) (Formula grass) (Winter grain) Mosquitoes ³ Pillbugs Sod webworms ⁴ (lawn moths)	3/4 li oz	1 quart	 Use Chlorpyrifos 4E for area control of ticks and chlggers infesting non- cropland areas such as turf and grassy areas, roadsides, footpaths and trails, picnic and camping sites, parks and other recreational areas where these pests are present and create a nuisance or a possible public health problem. Do not allow public use of treated areas during application or until spray has dried. Apply Chlorpyrifos 4E in water at the rate of ½ pint/acre (equivalent to ¼ fl oz per 1,000 sq ft) using a hydraulic sprayer, mist applicator, knapsack sprayer, or other suitable hand- or power-operated spray equipment. Treat low underbrush, grassy areas, weeds, and ground surface and debris using enough spray volume to obtain thorough coverage, usually 40-100 gal/acre. For individual fire ant mounds, apply Chlorpyrifos 4E as a drench, diluted at the rate of 1 fl oz per 4 gal of water. Gently sprinkle a total of 1 gal of the diluted emulsion over the surface of each mound using a gentle spray (such as a sprinkler can). Thoroughly wet mound and surrounding areas to a 4 ft diameter (12 sq ft). For best results, apply in cool weather, 65-80°F, or in early morning or late evening hours. Treat new mounds as they appear. Pressurized sprays may disturb the ants and cause migration, reduc- ing product effectiveness. Mosquitoes coming to rest on areas treated for control of turf pests will be killed for varying periods of time after treatment, depending on exposure of treated areas to weathering conditions. For sod webworms, watering or mowing of the treated area should be delayed for 12 - 24 hours after treatment. For control of deer ticks, apply in water at the rate of 1 quart per acre or ³/4 fl. oz. per 1,000 sq. ft. Treat low underbrush, turf, grassy areas, weeds, and ground surface and debris, using enough spray volume to obtain thorough coverage.

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Pest†		hlorpyrifos 4E ber					
	1000 sq ft	Acre	Specific Directions				
European crane fly	1 fl oz	11/2 quart					
Turfgrass weevil (Hyperodes)'	11/2 ll 02	2 quart	1. Spray suspected problem areas in mid-April and again in mid-May or as recom- mended by your local Agricultural Extension Service Specialist.				
White grubs' (Black turfgrass ataenius) (European chafer) (Japanese beetle larvae) (Southern and Northern masked chafer)	11/2-3 fl oz	2 quart - 1 gal	1. For white grubs, spray when grubs are young and actively leeding near the soil surface, usually during late July and August or as recommended by your local Agricultural Extension Service Specialist. Immediately after spraying, irrigate the treated area with 1/2 to 1 inch of water to wash the insecticide deep into the thatch or into the underlying soil.				
Billbug adults, such as (Bluegrass) (Denver) (Hunting)	3/4 - 3 oz	1 quart - 1 gal	For billbugs, spray early in the season when adults first appear. Retreat as needed.				
Mole Crickets	11/2 ll oz	2 quart	For mole crickets in turfgrass, apply through high pressure injection or other suitable subsurface placement application equipment. Depending on the applica- tion equipment used, follow the manufacturer's recommendation for calibration and the volume of spray per acre needed to provide control or as recommended by your local Agricultural Extension Service Specialist. For best results, apply when young nymphs are active.				
Imported Fire Ants in commercial sod		2 gallons	Apply Chlorpyrilos 4E as a spray to the area of sod to be cut. Immediately after application, irrigate treated area with at least 1/2 acre-inch of water or a sufficient volume to thoroughly soak below the cut line. Do not apply a volume or rate of water to cause runoff. Sod can be cut when vegetation has dried and when soil is moist, but not wet.				

Outside Surfaces and Around Buildings (Including Perimeter Treatments) Chlorpyrifos 4E may be applied as a residual spray to and around outside surfaces of residential and nonresidential buildings and structures. Permitted areas of use include but are not limited to: crawl spaces, decks, driveways, eaves, fences, foundations, garages, patios, porches, refuse dumps, walkways, walls, window and door frames and other areas where pests congregate or have been seen. Adults, children or pets should not contact treated surfaces until spray has dried. Keep out of fish pools and other bodies of water. Do not treat vegetable gardens. Do not allow livestock to graze in treated areas. Do not feed treated grass cuttings (hay) or seed screenings to livestock, nor use treated but for livestock bedrain

treated hay for livestock bedding. Repeat treatment as needed to maintain effectiveness. Unless prohibited by a product's label, users, at their own discretion can tank mix pesticides currently labeled for similar use patterns. It is always recommended that a small jar compatibility test using proper proportions be run to check for physical compatibility prior to tank mixing. Do not tank mix this product with products containing dichlorvos (DDVP).

Pest†	Amount	of Chlorpyrifos 4E in Wate	r to Make			
	1 gallon	10 gallons	50 gallons	Specific Directions		
		For Band Treatment'				
Ants Bees Bestles Boxelder bugs (or other true bugs) Carpenter ants Centipedes Clover mites Cockroaches†† Crickets Earwigs Elm leaf beetles (adults)	1/4 leaspoon	3/4 fl oz	4 fi oz	 To help prevent infestation of buildings, treat a band of s 6 - 10 ff wide around and adjacent to buildings, also t building foundation to a height of 2 - 3 ft, where pests a active and may find entrance. Use 4 fl oz of Chlorpyrifos- per 50 gal of water and apply as a coarse spray at the rate about 10 gal spray mixture per 1,000 sq ft to thoroughly a uniformiy wet the band area. For scorpions, treat or remove accumulations of lumb firewood, and other materials which serve as insect harb age sites. Make a thorough perimeter treatment around t structure using directions in (1.) above. 		
Firebrats Fleas		For Outside Surfaces				
Flies Hornets	11/3 fl oz	131/s fl oz	0-1	- · -		
Millipedes Mosquitoes Pillbugs Scorpions ² Silverfish	1 //3 11 02	13 /3 11 OZ ,	2 qt			
Sowbugs Spiders Springtails Ticks Wasps Yellowjackets				(). (). (). (). (). (). (). (). (). ().		

†Superscripts refer to Specific Directions. ††Controls American , Asian, Brownbanded, German, Oriental and Smokey brown cockroaches.

EPA REG. NO. 34704-66

Ants, Termites and Miscellaneous Pests

	Amount of Ch	lorpyrifos 4E in	Water to Make			
Pest	1 gallon	3 gallons	100 gallons	Specific Directions		
Ants Cockroaches (Such as: American, Asian, Brownbanded, German, Oriental, Smokybrown, Wood) Fire ants (foraging workers) Fire ants (mounds)' Sowbugs Springtails	1/6 fl. oz.	¹∕2 fl. oz.	1 pint	1. For mounds apply as a drench. Dilute 1 II. oz. per 4 gallons of water. Gently sprinkle 1-2 gallons of the diluted insecticide over the surface of each mound and surrounding areas to a 2 foot diameter. For best results, apply in cool weather, 65-80°F or in early morning or late evening hours. Treat new mounds as they appear. Pressurized sprays may disturb the ants and cause migration, reducing product effectiveness.		
Carpenter Ants ² Termites	2²/3 fl. oz.	8 fl. oz.	2 gailons	2. Locate nests and drench thoroughly.		

General Control of Wood-Infesting Insects

Chlorpyrifos 4E is intended to be mixed with water and applied as a general surface or localized injection treatment with pressurized sprayers or other equipment suitable for applying insecticides to localized areas.

Contact with treated surfaces should be avoided until spray has dried. Cover or remove exposed foods before treatment. Before spraying, remove pets and cover aquaria, i.e., fishbowls, and turn off air pump. Do not apply where electrical short circuits could occur. Do not use in structures housing animals which are intended for or which produce products to be used for food purposes, i.e., poultry houses. Thoroughly ventilating treated areas following broadcast treatments can reduce potential odors and speed drying. Ventilation in buildings with closed air circulating systems can be improved by adjusting ventilation systems to include outside air.

When used in accordance with label directions, Chlorpyrifos 4E can be applied to residential and nonresidential buildings and structures for control of wood-infesting insects. Permitted areas of use include, but are not limited to: wood surfaces, voids and channels in damaged wood, gaps between wooden members, wall voids, junctions between wood and foundation.

Mixing Directions: To make a 0.5% water based spray, mix 11/a fl. oz. of Chlorpyrilos 4E per each gallon of spray mixture. To make a 1.0% water based

A stable emulsion can be formed by first adding approximately one-half water to a spray tank followed by adding the proper amount of Chlorpyrifos 4E. Close the tank and shake viorously for 5 to 10 minutes.

Tank Mixing: Unless prohibited by a product's label, users, at their own discretion can tank mix pesticides currently labeled for similar use patterns. It is always recommended that a small jar compatibility test using proper proportions be run to check for physical compatibility prior to tank mixing. Do not tank mix this product with products containing dichlorvos. (DDVP).

Application Methods: This product may be applied either as a coarse spray or by brushing onto targeted surfaces. Equipment capable of delivering a coarse, low pressure (about 25 psi) spray is recommended for treatment of large or overhead areas. Inaccessible areas such as wall voids can be treated by injecting the spray mixture under low pressure (about 20 psi) through drilled openings. Use sufficient amount of spray dilution to cover the area to the point of wetness but avoid spraying to the point of runoff.

It is recommended that, when spraying overhead interior areas of buildings, surfaces below areas being treated be covered with plastic sheeting or other material which could be disposed of by placing in trash.

Beetles ¹ (Anobiidae) (Bostrichidae) (Cerambycidae) Lyctidae) Carpenter ants ² (and other wood-infesting ants) Carpenter bees	 Beetles may be controlled by applying spray mixture to infested areas, or areas where infestations are likely to occur. This includes but is not limited to wood surfaces, voids, and channels in damaged wood, in spaces between wooden member of a structure, and junctions between wood and foundations. Use the following guidelines to determine appropriate rates of application: New Wood, (typically less than 10 years of age) apply at about 1 gallon of dilution per 150 square feet. Old Wood, (typically greater than 10 years of age) apply at about 1 gallon of dilution per 100
Termites ³	 Square feet. Wood-Infesting ants may be controlled by applying spray mixture around doors and windows, cracks or crevices, or other areas where ants may enter, crawl, or hide.
	Primary colonies are typically found outside through an exterior inspection. Correction of sanitation and structural deficiences or landscape modifications may be necessary for effec- tive control.
	 Termites can be treated by applying spray mixture to infested areas, or areas where infesta- tions are likely to occur. This includes but is not limited to wood surfaces, voids and channels in damaged wood, in spaces between wooden members of a structure, and junctions between wood and toundations.
	This treatment is intended to kill localized infestations of workers and winged reproductive forms of termites and to prevent infestations for a temporary period. This application is not intended as a substitute for soil treatments.

Numbers refer to Specific Use Directions for Control of Wood-Infesting Insects.

Pest Control Indoors

Use Chlorpyrifos 4E to control pests listed in the following table by applying at the recommended dosages. Use a 0.25% spray to control light infestations and a 0.5% spray to quickly reduce heavy infestations or as directed. To prepare the spray, dilute Chlorpyrilos 4E with water or with a suitable base oil. Use only deodorized kerosene for oil-based sprays in food handling establishments.

Applications may be made within residential buildings, including homes and apartment buildings. Applications may also be made within mausoleums and nonfood areas of industrial, institutional, and commercial buildings, including hdspitals, stores, manufacturing plants, and warehouses. Applications may be made within food handling establishments. This includes, but is not limited to, stores, manufacturing plants, and warehouses. Applications may be made within food handling establishments. This includes, but is not limited to, restaurants, grocery stores, bakeries, bottling plants, canneries, and grain mills. Any individual spot treatment may not exceed 2 square feet. Apply as a coarse, low pressure spray (20 psi or less) or with a paint brush to localized areas in and around both hood and non-food areas. Treat where insects are found or normally occur, including dark corners of rooms and closets; floor drains; cracks and crevices in walls; along and behind baseboards; beneath and behind sinks, stoves, refrigerators, refrigerator units, and cabinets; and around plumbing and other utility installations. In food-handling establishments use only as a spot treatment. Spot treatment may encompass crack and crevice treatments by applying small amounts of material directly into openings leading to voids and holiow spaces in walls, equipment legs and bases, or which occur at point: t 20.4 encompass of the paint of delivering a pinstream of spray should be used. Repeat treatment as needed, but not more often than once every 7 days in restaurants and similar food service establishments, or more often than once every 7 days in the ratement, but emergency use should be limited to once per month. Applications of this product in food-handling establishments cher thar as a spot and/or crack and crevice treatment are not permitted.

EPA REG. NO. 34704-66

Note: Where quick "knockdown" and/or "flushing action" is desired, dichlorvos (DDVP) or pyrethrins may be added to the spray mixture containing Chlorpyrifos 4E. For best results, use dichlorvos at a concentration of 0.25% in both water and oil-base sprays; use pyrethrins at 0.25% in water-based sprays and 0.05% in oil-based sprays. Consult labeling for the dichlorvos or pyrethrin products used to determine the amount needed to give the desired spray concentration. Also read and observe all use and handling precautions for these products.

Do not apply water-based sprays of this product in conduits, motor housings, junction and switch boxes, or other electrical equipment because of possible shock hazard. If there is need to treat such areas, use only oil-based sprays. Prior to application, de-energize electrical equipment. After application allow time for oil to evaporate before starting motors or placing switches in the "on" position.

Do not allow spray to contact food, feedstuffs, or water supplies. Thoroughly wash dishes and lood-handling utensils with soap and water if they become contaminated by application of this product. Do not allow children or pets to contact treated surfaces until spray has dried. Remove pets and cover fish bowls (tanks) before spraying. Do not introduce the spray into the air or allow the spray to contact food or food-contacting surfaces. Use Chlorpyrifos 4E to control the pests listed in the following table by application as a 0.25% or 0.5% spray.

Pest Control Indoors

		Amount of Chlorpyrifos 4E to Make					· ·		
	1 Gallon of Water-Based Spray				1 Gal	1 Gallon of Oll-Based Spray			
Pest†	0.25% Spray 0.5% Spray			Spray	0.25% Spray 0.5% Spray		Spray	1	
	fl oz	ml	floz	ml	fioz	ml	floz	ml	Specific Directions
Ants ¹ Cockroaches ² (American) (Brownbanded) (German) (Oriental) (Smokey brown) Confused flour beetles Crickets Earwigs Firebrats Indian meal moths Mediterranean flour moths Mediterranean flour moths Millipedes Red flour beetles Rice weevils Saw-toothed grain beetles Silverfish Spiders	2/3	· 20	11/3	40	1/2	15	1	30	Use the low rate (0.25%) to control light in- festations and the high rate (0.5%) to quickly reduce heavy infestations or for extended residual control. 1. For ants, apply to ant trails and around doors and windows and wherever else the pest may find entrance. 2. A period of 4 to 7 days is normally required for maximum effect on cockroaches.
Brown dog licks ¹ Carpet beetles ² Clover mites			11/3	40			1	30	 For the control of brown dog ticks, thoroughly apply the spray as a spot treatment to infested areas, such as pet beds and resting quarters; nearby cracks and crevices; along baseboards, windows and door frames, and localized areas of floor and floor coverings where these pests may be present. Old bed ding should be removed and replaced with clean, fresh bedding after treatment. Do not treat pets with this product. For the control of carpet beetles, thoroughly apply the spray as a spot treatment along baseboards and edges of carpeting under carpeting, rugs and furniture, in closets and on shelving, and wherever else these insects are seen or suspected.

†Superscripts refer to Specific Directions.

NOTICE

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